HEARING RESEARCH

Vol. 63, No. 1/2 November 1992

CONTENTS

K.R. Henry and E.R. Lewis (USA)
One-tone suppression in the cochlear nerve of the gerbil 1

E.R. Lewis and K.R. Henry (USA)
Modulation of cochlear nerve spike rate by cardiac activity in the gerbil 7

K.R. Henry (USA)
Derived and enhanced compound action potentials at near-threshold levels: Forward masking increases sensitivity of audiograms and tuning curves 12

F. Scheibe, H. Haupt and C. Ludwig (FRG)
Intensity-dependent changes in oxygenation of cochlear perilymph during acoustic exposure 19

G.W. Harding, P.J. Baggot and B.A. Bohne (USA)
Height changes in the organ of Corti after noise exposure 26

I. Thalmann, T.H. Comegys, S.Z. Liu, Z. Ito and R. Thalmann (USA, Japan)
Protein profiles of perilymph and endolymph of the guinea pig 37

U. Langemann and G.M. Klump (FRG)
Frequency discrimination in the European starling (*Sturnus vulgaris*): A comparison of different measures 43

G. Zucca, L. Botta, V. Milesi, F. Dagani and P. Valli (Italy)
Evidence for L-glutamate release in frog vestibular organs 52

R.B. Masterton, E.M. Granger and K.K. Glendenning (USA)
Psychoacoustical contribution of each lateral lemniscus 57

M.E. Hutchings, S.E. Meyer and D.R. Moore (UK)
Binaural masking level differences in infants with and without otitis media with effusion 71

K.K. Ohlemiller and J.H. Siegel (USA)
The effects of moderate cooling on gross cochlear potentials in the gerbil: Basal and apical differences 79

K.R. Henry and J.M. Price (USA)
Suprathreshold comparisons of derived and enhanced compound action potentials 90

J.M. Price and K.R. Henry (USA)
Latency enhancement of the cochlear nerve compound action potential (CAP) 97

W.S. Quirk, G. Avinash, A.L. Nuttall and J.M. Miller (USA)
The influence of loud sound on red blood cell velocity and blood vessel diameter in the cochlea 102

P. Heil, R. Rajan and D.R.F. Irvine (Australia)
Sensitivity of neurons in cat primary auditory cortex to tones and frequency-modulated stimuli. I: Effects of variation of stimulus parameters 108

P. Heil, R. Rajan and D.R.F. Irvine (Australia)
Sensitivity of neurons in cat primary auditory cortex to tones and frequency-modulated stimuli. II: Organization of response properties along the 'isofrequency' dimension 135

(continued on page 216 of text)

Cited in: Biological Abstracts (BIOSIS); Chemical Abstracts; Current Contents/Life Sciences; Current Awareness in Biological Sciences (CABS); Excerpta Medica (EMBASE); Index Medicus; INSPEC; PASCAL M; Reference Update

Printed in The Netherlands

HEARING RESEARCH

Vol. 63, No. 1/2 November 1992

CONTENTS

K.R. Henry and E.R. Lewis (USA)
One-tone suppression in the cochlear nerve of the gerbil 1

E.R. Lewis and K.R. Henry (USA)
Modulation of cochlear nerve spike rate by cardiac activity in the gerbil 7

K.R. Henry (USA)
Derived and enhanced compound action potentials at near-threshold levels: Forward masking increases sensitivity of audiograms and tuning curves 12

F. Scheibe, H. Haupt and C. Ludwig (FRG)
Intensity-dependent changes in oxygenation of cochlear perilymph during acoustic exposure 19

G.W. Harding, P.J. Baggot and B.A. Bohne (USA)
Height changes in the organ of Corti after noise exposure 26

I. Thalmann, T.H. Comegys, S.Z. Liu, Z. Ito and R. Thalmann (USA, Japan)
Protein profiles of perilymph and endolymph of the guinea pig 37

U. Langemann and G.M. Klump (FRG)
Frequency discrimination in the European starling (*Sturnus vulgaris*): A comparison of different measures 43

G. Zucca, L. Botta, V. Milesi, F. Dagani and P. Valli (Italy)
Evidence for L-glutamate release in frog vestibular organs 52

R.B. Masterton, E.M. Granger and K.K. Glendenning (USA)
Psychoacoustical contribution of each lateral lemniscus 57

M.E. Hutchings, S.E. Meyer and D.R. Moore (UK)
Binaural masking level differences in infants with and without otitis media with effusion 71

K.K. Ohlemiller and J.H. Siegel (USA)
The effects of moderate cooling on gross cochlear potentials in the gerbil: Basal and apical differences 79

K.R. Henry and J.M. Price (USA)
Suprathreshold comparisons of derived and enhanced compound action potentials 90

J.M. Price and K.R. Henry (USA)
Latency enhancement of the cochlear nerve compound action potential (CAP) 97

W.S. Quirk, G. Avinash, A.L. Nuttall and J.M. Miller (USA)
The influence of loud sound on red blood cell velocity and blood vessel diameter in the cochlea 102

P. Heil, R. Rajan and D.R.F. Irvine (Australia)
Sensitivity of neurons in cat primary auditory cortex to tones and frequency-modulated stimuli. I: Effects of variation of stimulus parameters 108

P. Heil, R. Rajan and D.R.F. Irvine (Australia)
Sensitivity of neurons in cat primary auditory cortex to tones and frequency-modulated stimuli. II: Organization of response properties along the 'isofrequency' dimension 135

(continued on page 216 of text)

Cited in: Biological Abstracts (BIOSIS); Chemical Abstracts; Current Contents/Life Sciences; Current Awareness in Biological Sciences (CABS); Excerpta Medica (EMBASE); Index Medicus; INSPEC; PASCAL M; Reference Update

Printed in The Netherlands

(Contents continued)

R.P. Bobbin and M. Fallon (USA)
Intense sound increases the level of an unidentified amine found in perilymph 157

N.P. Cooper and W.S. Rhode (USA)
Basilar membrane mechanics in the hook region of cat and guinea-pig cochleae: Sharp tuning and nonlinearity in the absence of baseline position shifts 163

N.P. Cooper and W.S. Rhode (USA)
Basilar membrane tonotopicity in the hook region of the cat cochlea 191

T. Koch, B. Gloddek and S. Gutzke (FRG)
Binding sites of atrial natriuretic peptide (ANP) in the mammalian cochlea and stimulation of cyclic GMP synthesis 197

C.D. Geisler (USA)
Two-tone suppression by a saturating feedback model of the cochlear partition 203

Author Index 211

Subject Index 212

Calendar of Events 215